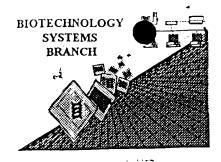
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/875,5/9Source: 0196Date Processed by STIC: 9/6/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Ohocker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED	suggested correction serial number: $\frac{O(1/8.7)}{5.7}$
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length.	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 Use of <220>	Sequence(s) // missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 . Misuse of n	in can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

RL-RUA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,519

DATE: 09/06/2001 TIME: 10:53:03

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Output Set: N:\CRF3\09062001\1875519.raw

pr 3-4

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              Harrison, Richard A.
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     15 <130> FILE REFERENCE: 4-30443/A/IMU/PCT
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     27 <151> PRIOR FILING DATE: 1997-03-04
                                                                   . Does Not Comply
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PATENT APPLICATION: US/09/875,519

DATE 9/06/2001 TIME: 10:53:03

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PATENT APPLICATION: US/09/875,519

DAT 09/06/2001 TIME: 10:53:03

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RAW SEQUENCE ISTING PATENT APPLICATION: US/09/875,519

9/06/2001 DATE TIME: 10:53:03

Input Set : A:\ES.txt

Output Set: N:\CRF3\09062001\1875519.raw

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09/06/2001 TIME: 10:53:03

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543	AIG	50	Gry	АЗР	Val	110	55	1111	Vai	1111	Vai	60	изр	rne	110	Gry
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	Asn	His	Met	Gly		Val	Thr	Phe	Thr		Pro	Ala	Asn	Arg		Phe
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561	гÀг	.Ser	GIU	100	GIY	Arg	Asn	ьys	105	vaı	Thr	vai	GIN	110	Inr	Pne
	Glv	Thr	Gln		Val	Glu	Lvs	Val		Leu	Va ! *	Ser	Leu		Ser	Gŀv
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	145	m h sa	17 1	Mak	17-1	150	Tla	C1	7	D	155	C1	Tla	D	17-1	160
585	Arg	Thr	vaı	Met	165	ASII	ше	GIU	ASII	170	GIU	GIY	116		175	гуѕ
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597			195			,		200					205			
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603	Luc	210 Glu	ጥህ፦	Wal	Lou	Dro	215	Dho	Clu	V a l	Tlo	220 Val	Clu	Dro	Thr	Clu
	225	Giu	ıyı	vai	neu	230	Ser	rne	Giu	vai	235	vai	Giu	110	1111	240
		Phe	Tyr	Tyr	Ile		Asn	Glu	Lys	Gly		Glu	Val	Thr	Ile	
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621	D1	G.)	T 1	260	_	61	0.1	a 1	265	- 1	0			270	0	
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VERIFIC ON SUMMARY

PATENT APPLICATION: US/09/875,519

DATE: 09/06/2001 TIME: 10:53:04

Input Set : A:\ES.txt

Output Set: N:\CRF3\09062001\1875519.raw

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